### **PATENT COOPERATION TREATY**

## **PCT**

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

REC'D 26 JUL 2005

		WIPO PCT
Applicant's or agent's file reference ZAP/PCT/MH	FOR FURTHER AC	TION See Form PCT/IPEA/416
International application No. PCT/GB2004/001459	International filing date (d 05.04.2004	day/month/year) Priority date (day/month/year) 04.04.2003
International Patent Classification (IPC H04N7/16	c) or national classification and IP	
Applicant THE ZAP CORPORATION (UI	K) LIMITED	·
This report is the internation     Authority under Article 35 ar	al preliminary examination rep nd transmitted to the applicant	port, established by this International Preliminary Examining according to Article 36.
2. This REPORT consists of a	total of 6 sheets, including th	is cover sheet.
3. This report is also accompa	nied by ANNEXES, comprisin	g:
a. 🛛 sent to the applicant	and to the International Burea	au) a total of 3 sheets, as follows:
⊠ sheets of the de and/or sheets co Administrative Ir	ntaining rectifications authoriz	ngs which have been amended and are the basis of this report red by this Authority (see Rule 70.16 and Section 607 of the
☐ sheets which su beyond the discl Supplemental Be	osure in the international appl	nich this Authority considers contain an amendment that goes lication as filed, as indicated in item 4 of Box No. I and the
sequence listing and	for tables related thereto, in co	dicate type and number of electronic carrier(s)) , containing a computer readable form only, as indicated in the Supplemental 2 of the Administrative Instructions).
4. This report contains indicati	ons relating to the following it	ems:
☑ Box No. I Basis of the	ne opinion	
☐ Box No. II Priority		•
☐ Box No. III Non-estal	olishment of opinion with rega	rd to novelty, inventive step and industrial applicability
☐ Box No. IV Lack of u	nity of Invention	
	d statement under Article 35(2 ity; citations and explanations	2) with regard to novelty, inventive step or industrial supporting such statement
	ocuments cited	
•	efects in the international appl	
☐ Box No. VIII Certain of	bservations on the internation	al application
Date of submission of the demand		Date of completion of this report
03.02.2005		26.07.2005
Name and mailing address of the interpreliminary examining authority:		Authorized Officer
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465		Dobbelaere, D
		Telephone No. +49 89 2399-2019

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/GB2004/001459

	Box No. I	Basis of the report	
1.	With regard to the <b>language</b> , this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.		
	which □ inte □ pul	report is based on translations from the original language into the following language, is the language of a translation furnished for the purposes of:  sernational search (under Rules 12.3 and 23.1(b))  sblication of the international application (under Rule 12.4)  ernational preliminary examination (under Rules 55.2 and/or 55.3)	
		rd to the <b>elements*</b> of the international application, this report is based on <i>(replacement sheets whic</i> in furnished to the receiving Office in response to an invitation under Article 14 are referred to in this "originally filed" and are not annexed to this report):	:h
	Description	n, Pages	
	1-12	as originally filed	
	Claims, Nu	ımbers	
	1-10	received on 03.02.2005 with letter of 03.02.2005	
	Drawings,	Sheets	
	1-4	as originally filed	
	□ a seq	uence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing	
3.	The amendments have resulted in the cancellation of:  ☐ the description, pages ☐ the claims, Nos. ☐ the drawings, sheets/figs ☐ the sequence listing (specify): ☐ any table(s) related to sequence listing (specify):		
4.	<ul> <li>This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).</li> <li>☐ the description, pages</li> <li>☐ the claims, Nos.</li> <li>☐ the drawings, sheets/figs</li> <li>☐ the sequence listing (specify):</li> <li>☐ any table(s) related to sequence listing (specify):</li> </ul>		
	* Tf i	tem 4 applies, some or all of these sheets may be marked "superseded."	

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

2,4

No: Claims

1,3.5-10

Inventive step (IS)

Yes: Claims No: Claims

1-10

Industrial applicability (IA)

Yes: Claims

1-10

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

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#### Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 1 Reference is made to the following documents:
  - D1: US 2002/129368 A1 (RAMPULLA ANDREW J ET AL) 12 September 2002 (2002-09-12)
  - D2: EP-A-1 207 695 (DISCOVERY COMMUNICAT INC) 22 May 2002 (2002-05-22)
- 2 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of independent claim 1 is not new in the sense of Article 33(2) PCT.
- 2.1 Document D1 discloses (while repeating the wording of present claim 1, the references in parentheses apply to D1):

A system for broadcasting inter-programme and/or intra-programme advertisements to a viewing or listening audience (Paragraph [0275]), characterised in that the system comprises:

- means for obtaining programme-receiving audience profiles (Abstract);
- means for matching a given advertisement's target audience profile to a given programme-receiving audience profile (Paragraph [0275]); and
- means for broadcasting advertisements dependent upon target audience profiles and programme-receiving audience profiles (Paragraphs [0129-0130], [0275]);

#### characterised in that:

- said means for obtaining programme-receiving audience profiles operate with means for interrogating set top boxes with individual ... addresses in order to determine the nature of the programmes viewed by the programme receiving audience per ... address or group of ... addresses (Paragraphs [0128], [0249], [0275];
- said means for broadcasting advertisements operate with means for analysing viewer habits for particular ... addresses in order to generate a programme-receiving profile for one or a group of ... addresses (Paragraphs [0120], [0130], [0075-0076], [0276-0279]);

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and the system further comprises:

- means for dictating not only that certain advertisements shall be broadcast only between and/or during certain programmes but also that certain individual members of, or groups of members within, the programme-receiving audience may receive one advertisement during and/or between certain programmes, whilst other audience members or member groups receive a different advertisement, in one or more of the same respective advert 'slots', whilst watching or listening to the same broadcast (Paragraphs [0278], [0279]).

It may be argued that D1 does not explicitly mention the term 'IP' to qualify the address of the Set Top Box. In D1 however the different Set Top Boxes are also uniquely addressed (and thus need an address), and are also connected to the Internet (see e.g. paragraphs [0120] or [0279]). It us thus implicitly clear that the address used can just as well be an IP address.

D1 thus discloses in combination all features of present claim 1, consequently claim 1 cannot be considered novel over the available art (Art 33(2) PCT).

2.2 It could however also be argued that in D1 the viewer profile is generated and updated at the Set Top Box and then communicated to the central system, whereas the present application is directed to a fully centralised profiling system. It must first be noted however that present claim 1 is not limiting in this sense, i.e. there is no clear and restricting limitation in the disclosure of present claim 1 stating that the profiles are exclusively generated at the central side.

Moreover, even if there would be such a restriction, this would not be considered inventive (Art 33(3) PCT): the choice whether to charge the Set Top Box with the gathering and updating of the profile rather than doing this at the central system is a design choice, not a technical one: such a choice concerns a tradeoff in between cost/processing power at the user side versus cost/processing power at the central side, in between flexibility versus central control.

Since communication in between a Set Top Box and a central system over (any type of) a network is well known in the art, such processing functions can be moved into different nodes of the communication network without substantially changing the technical contribution.

- 2.3 It may furthermore be noted that some terminology and statements claim 1 in particular, are vague and unclear, or do not refer to any technical features, contrary to Art 6 PCT:
  - the use of several 'and/or' combinations in claim 1;
  - the term 'programme-receiving ... profile' is not clear and has no technical character.

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Dependent claims 2-10 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step, see documents D1 and D2 (claims 2 and 4 in particular) and the corresponding passages cited in the search report.

#### **CLAIMS**

- 1. A system for, broadcasting inter-programme and/or intra-programme advertisements to a viewing or listening aud ance which comprises:
- means for obtaining programme-receiving judience profiles;
- means for matching a given advertisement's target audience profile to a given programme-receiving audience profile; and
- means for broadcasting advertisements dependent upon target audience profiles and programme-receiving audience profiles; characterised in that:
- said means for obtaining programme-receiving audience profiles operate with means for interrogating set top boxes with individual IP addresses in order to determine the nature of the programmes viewed by the programme receiving audience per IP address or group of IP addresses;
- said means for broadcasting advertisements operate with means for analysing viewer habits for particular II, addresses in order to generate a programme-receiving audience profile for one or a group of IP addresses; and the system further comprises:
- means for dictating not only that certain advertisements shall be broadcast only between and/or during certain programmes but also that certain IP addresses or groups of IP addresses within the programme-receiving audience may receive one advertisement, during and/or between certain programmes, whilst other IP addresses or IP addresses groups receive a different advertisement, in one or more of the same respective advert 'slots', whilst watching or listening to the same broadcast;
- 2. A system according to claim 1, wherein the system collects data by using polling pulses and stores data for analysis in a data collector located remotely from the set top boxes.
- 3. A system according to either of a of the preceding claims, wherein the system uses a bank of advertising campaigns where advertising campaigns are classified by integrating numerically tagged segment codes.

- 5. A system according to any of the preceding claims, comprising means for receiving multiple advertisements from a broadcast network and a mechanism for allowing the play-out of only a portion of the advertisements' broadcast whilst the remaining portion expires.
- 6. A system according to any of the preceding claims, wherein the system stores further information such as program buyer profile, time of broadcast and/or nature of broadcast and utilises an interface between the audience profiles data stored and said further information to select appropriate advertisements.
- 7. A system according to any of the preceding claims, wherein the system further comprises means allowing the viewer or listener to interact during an advertisement, means which store data as part of the audience profile to record any such interaction and means which may be set to trigger the release of further similarly classified advertisements to the viewer or listener.
- 8. A system according to any of the preceding claims, wherein during a given broadcast with a plurality of advertisement breaks, the system is adapted to record for an individual audience the series of advertisements delivered during an initial break and then adjust the content of the following series of advertisements delivered during a subsequent break.
- 9. A system according to any of the preceding claims, wherein during a given broadcast on a given channel with a plurality of advertisement breaks, the system is adapted to record for an individual audience whether the viewer switches to another channel during the break and the system comprises means to calculate which channel he or she is likely to switch to and tailor the advertisement delivered to said most probable channel to correspond to the audience in question.

10. A system according to any preceding claim, wherein the information identified such as the audience profiles is stored remotely from the viewer/listener receiver units.